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TITLE : PRODUCTION OF TITANIUM OXIDE THIN MEMBRANE

ABSTRACT : PURPOSE: To rapidly synthesize a titanium oxide thin membrane by using a low temperature plasma.

CONSTITUTION: This titanium oxide thin membrane is accumulated on a substrate by supplying a titanium compound expressed by the general formula $Ti(OR)_4$ (R is a lower alkyl group) in a gaseous state to an atmospheric pressure glow discharge beam plasma generated by using an inert gas as a main gas. Hydrogen gas may be supplied simultaneously with the titanium compound. The high quality titanium oxide thin membrane is synthesized without exerting an adverse effect to the substrate, since it is possible to perform the synthesis at a low temperature by this method.

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